

ABSTRACT OF THE DISCLOSURE

A system, method and structures for dissipating heat away from a thermal fluid ejector module through a thermally-conductive carriage molded from a polymer to the ambient air surrounding the structure upon which the thermally-conductive fluid ejector carriage translates. The heat is transferred via conduction and convection from the thermally-conductive fluid ejector carriage across a thin volume of air trapped between a thermally-conductive carriage rod guide, enclosed on each end by thermally-conductive carriage rod guide bearings, and the thermal contact of the thermally-conductive carriage rod guide bearings with the surface of at least one thermally-conductive carriage guide rod on which the thermally-conductive fluid ejector carriage translates.